ABSTRACT

An inspection voltage imposer generates an inspection voltage by multiplying fundamental voltage string data in which a certain voltage output pattern where an average of output voltage levels in one period becomes 0 is set by data of a modulation signal whose value varies every period and impose the inspection voltage on a drive voltage of a motor. When the inspection voltage is imposed on the drive voltage of the motor, an angle detector detects the rotor angle of the motor based on the fundamental voltage string data, a variation of an inspection current and the data of the modulation signal in respective control cycles.